

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 08304574

PUBLICATION DATE : 22-11-96

APPLICATION DATE : 15-05-95

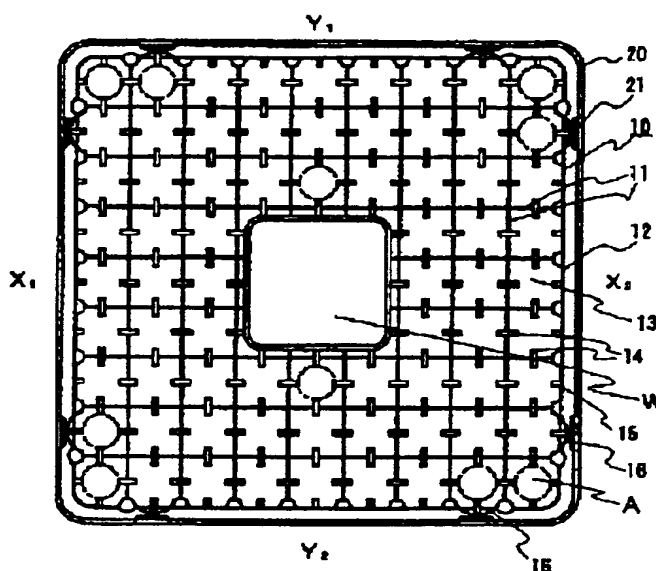
APPLICATION NUMBER : 07138883

APPLICANT : NUCLEAR FUEL IND LTD;

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INT.CL. : G21C 3/324 G21C 3/34

TITLE : CHANNEL BOX FOR FUEL ASSEMBLY
OF NUCLEAR REACTOR, AND FUEL
ASSEMBLY



ABSTRACT : PURPOSE: To improve a thermal margin of an assembly by a method wherein a plurality of projecting parts coming into contact practically with opposite positions and having the same height of projection are formed on the inner peripheral wall of a channel box at the position in the axial direction being opposite to any one of spacers.

CONSTITUTION: Dimples 16 totaling 8 are provided in the vicinity of corner parts of four sides X_1 , X_2 , Y_1 and Y_2 of a spacer side plate 12, by twos for each corner part. Spacers 10 each holding fuel rods A and a water channel W are held in the number of seven, for instance, inside a channel box 20 and eight projecting parts 21 coming into contact practically with the opposed positions of the dimples 16 and having the same height of projection are formed on the inner peripheral wall of the box 20 at the position in the axial direction corresponding to one spacer 10 located in the middle. The projecting parts 21 prevent rod-shaped elements of the fuel rods A and the channel W from being biased inside the box 20. A thermal margin of a fuel assembly can be thereby improved.

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